

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-7. Canceled.

8. (Previously Presented) A leveling device for a surface texture measuring machine, the surface texture measuring machine comprising: a displacement detecting means movable in a measurement direction (X-axis direction) for measuring displacement (Z-axis direction) on a surface of a workpiece; and a moving means for moving the displacement detecting means in the measurement direction to scan a displacement signal from the displacement detecting means, the surface texture measuring machine adjusting an amount of a workpiece stage relative to a base line as a movement locus of the moving means, the leveling device comprising:

a fulcrum for rotatably supporting the workpiece stage during measurement and adjustment and a point of action working relative to the fulcrum;

a manipulated variable calculation means for single scanning the surface of the workpiece by the displacement detecting means and for calculating a center locus, an inclination of the surface of the workpiece, of a series of at least three measurement data based on a single-scanned displacement signal from the displacement detecting means to calculate an operation amount at the point of action relative to the fulcrum required for paralleling the center locus with the base line of the moving means;

an output means for displaying, printing or outputting as data the operation amount; and

an inclination adjustment means which an operator can manually operate to adjust the inclination of the workpiece stage relative to the X-axis on X-Z plane for manually adjusting inclination of a predetermined amount, wherein the operation amount is calculated

in length by the manipulated variable calculation means from an inclination reference position where an inclination line connecting the fulcrum and the point of action of the inclination adjustment means is parallel with the base line of the moving means, based on the angle of the center locus relative to the base line of the moving means.

9. (Canceled)

10. (Original) The leveling device according to Claim 8, wherein the inclination adjustment means includes a micrometer head.

11. (Original) The leveling device according to Claim 8, wherein the operation amount includes operation amount at any two points on the inclination adjustment means conducting three-point support.

12. (Original) The leveling device according to Claim 8, further comprising any one of the workpiece and the moving means.